

## Hazard Control Plan

**Title:** Ladders and Elevated Work Surfaces

**Identifying Number:** P-FM-HCP-008-2001.1

**Initial Risk Estimate:** Medium

**Residual Risk:** Low

**Work Permits:** N/A

**Document Prepared By:** Myra Stafford, Industrial Hygienist  
**Name/Title**

**Organization:** P-FM

|  |                  |
|--|------------------|
| <b>Document Reviewed by:</b> <u>Stephanie Archuleta, FMU 77 ES&amp;H Team Leader</u> | <u>4/19/2001</u> |
| <b>Name/Title</b>  | <b>Date</b>      |
| <u>Tom Montoya, FMU 77 Safety Professional</u>                                       | <u>4/23/2001</u> |
| <b>Name/Title</b>  | <b>Date</b>      |

**Work Authorization:**

|                                      |                  |             |
|--------------------------------------|------------------|-------------|
| <u>David Riker, Facility Manager</u> |                  |             |
| <b>Name/Title</b>                    | <b>Signature</b> | <b>Date</b> |

**Periodic Review Schedule:** Every 3 years or as modification is necessary through feedback or activity change.

## **SCOPE:**

This Hazard Control Plan applies to P-FM personnel performing work on elevated work surfaces and using portable and fixed ladders. Facility work is not authorized.

## **DESCRIPTION OF OPERATION:**

P-FM personnel perform work requiring the use of portable and fixed ladders, access to roof areas, catwalks, and other elevated surfaces for the purpose of inspection, work verification, or hazard analysis.

## **MATERIAL AND EQUIPMENT:**

Elevated work surfaces may include but are not limited to: Portable and fixed ladders, scaffolds, roof areas, and catwalks.

## **LANL AND REGULATORY REQUIREMENTS:**

- Occupational Safety and Health Administration (OSHA) Regulations 1910. Subpart D Walking-Working surfaces. 1910.21-1910.30.

## **FACILITY SPECIFIC REQUIREMENTS:**

It is the responsibility of the P-FM employee to be familiar with the facility hazards prior to entering the work space or have a person familiar with the facility specific hazards escort the employee.

## **EMERGENCY ACTIONS:**

P-FM employees should be familiar with emergency signals, procedures, and emergency equipment (pull boxes, etc) for the facility, building, area, or operation. Emergency contacts and numbers should be posted. Personnel should be knowledgeable of muster areas designated for the site. Call 911 for immediate crises/fire/medical assistance. *“In the event of an emergency, remember that your first responsibility is for your own safety. Do not try to perform any shutdown procedures if it would mean compromising your safety.”*

**Waste Produced: None**

**WORK ACTIVITIES/HAZARDS/CONTROLS:**

| <b>Activity</b>   | <b>Hazard</b>                           | <b>Control</b>  |
|---|---|---|
| Any use of a portable or fixed ladder for inspections, investigations, evaluations, or ES&H sampling. | Fall from ladder or collapse of ladder. | <ul style="list-style-type: none"> <li>• Use ladders that meet or exceed OSHA requirement Subpart D Walking-Working Surfaces 1910.24 through 1910.27.</li> <li>• Inspect the ladder for defects. Do not use ladder if defective. Report damaged ladders to your supervisor tag and remove from service.</li> <li>• Extension ladders should be placed such that feet are placed out a distance equal to one quarter that of the height to the top support point.</li> <li>• When being used to access a roof or other similar height, the ladder must extend at least 36 inches above the surface being accessed.</li> <li>• If ladders are not stable, they must be tied off or stabilized in such a way that they cannot tip to the side or slide in any way.</li> <li>• Use three-point control while climbing.</li> <li>• Use ladders of sufficient height and position so employees do not have to stretch, reach, or stand on the top rung and cap.</li> <li>• Hard-hat is required when overhead hazards are present.</li> <li>• When ascending or descending a ladder always face the ladder and never hand carry objects or loads.</li> <li>• Appropriate PPE to specifically include appropriate footwear.</li> </ul> |

|  |   |  |
|--|---|--|
| Portable ladders   | Contact with energized sources                                | <ul style="list-style-type: none"> <li>Do not place a ladder close to electrical wiring or against any operational piping (acid, chemical, sprinkler system, etc) where damage may be done. Where there may be a potential for electric shock, use nonconductive ladders.</li> </ul>   |
| Work requiring the use of scaffolds.   | Fall from scaffolds and scaffolding. Collapse of scaffolding. | <ul style="list-style-type: none"> <li>Scaffolds must be constructed to meet the requirements stated in 29 CFR 1910.28 and 1910.29. Scaffolds must be complete with guardrails and toe boards.</li> <li>Hard-hat is required when overhead hazards are present.</li> <li>Scaffolding must be erected by a competent person per 1926.451(a)(3)</li> <li>No work on scaffolds will be done during high winds/storms per 1926.451(a)(23)</li> </ul> |
| Access to roofs for the purpose of inspection, investigation, work planning, or ES&H sampling. | Fall from roofs   | <ul style="list-style-type: none"> <li>Stay 6 feet away from edge when possible. If work requires going within 6 feet of roof edge, a second person, designated as a spotter, must be present. The spotter must stand 6 feet from roof edge.</li> </ul>  |
|  | Roof holes, skylights   | <ul style="list-style-type: none"> <li>Be aware and avoid roof holes, skylights, and other openings. If work requires proximity to a roof opening or sky light the use of a spotter will be required.</li> </ul>   |

**KNOWLEDGE, SKILLS AND ABILITIES NECESSARY TO PERFORM THE WORK SAFELY:**

P-FM employees must read and sign this HCP before performing the applicable activities.

The worker must be physically capable of safely climbing the ladder in use. Tall fixed ladders can be physically demanding and the worker must evaluate their ability to safely climb and descend the total height of the ladder before attempting the work.

**Formal Training**

- ⇒ **Ladder Safety** – This live course is available from ES&H Training Group (ESH-13), White Rock Training Center (ESH course number 12985). This formal course must be completed within 120 days of first authorization to perform ladder work. Prior to training, a ladder safety briefing by a member of the FMU 77 ES&H Team is considered sufficient training.

**Work Authorization****Work Acknowledgement:**

I have read and understand this Hazard Control Plan:

|                     |                    |               |
|---------------------|--------------------|---------------|
| _____<br>Name/Title | _____<br>Signature | _____<br>Date |
| _____<br>Name/Title | _____<br>Signature | _____<br>Date |
| _____<br>Name/Title | _____<br>Signature | _____<br>Date |
| _____<br>Name/Title | _____<br>Signature | _____<br>Date |
| _____<br>Name/Title | _____<br>Signature | _____<br>Date |
| _____<br>Name/Title | _____<br>Signature | _____<br>Date |
| _____<br>Name/Title | _____<br>Signature | _____<br>Date |
| _____<br>Name/Title | _____<br>Signature | _____<br>Date |
| _____<br>Name/Title | _____<br>Signature | _____<br>Date |
| _____<br>Name/Title | _____<br>Signature | _____<br>Date |
| _____<br>Name/Title | _____<br>Signature | _____<br>Date |